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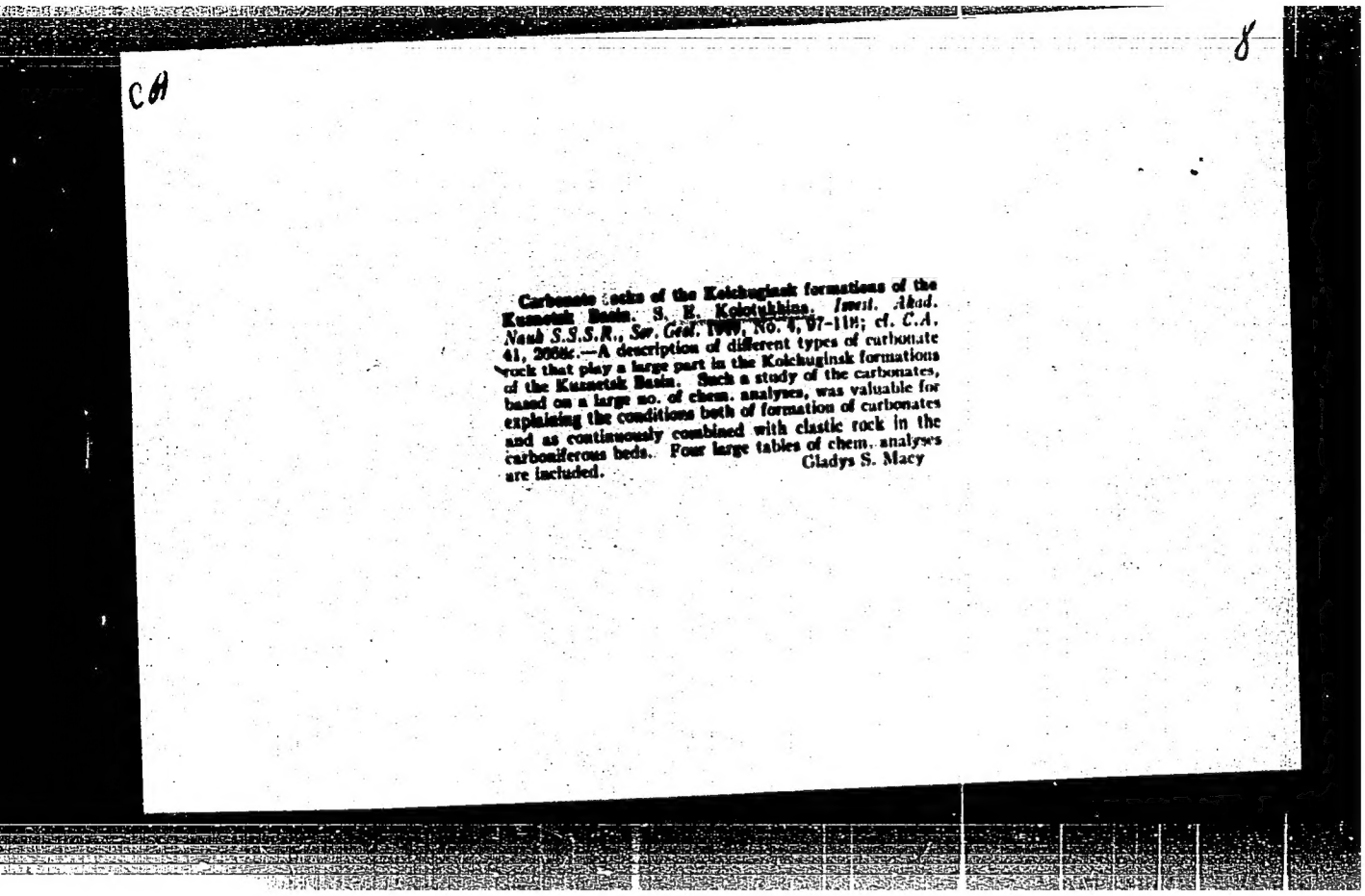

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Gladys S. Macy

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TKACHENKO, Sergey Dmitriyevich; KURCHATOV, Vladimir Ivanovich; KOLOTUSHKIN, Nikolay Mikhaylovich; SVET, Ye.B., red.; KOLBICHEV, V.I., tekhn. red.

[Automatic machine for drilling piston pins]Avtomat dlia sverleniia porshnevykh pal'tsev. Cheliabinsk, Cheliabinskoe knizhnoe izd-vo, 1961. 12 p. (MIRA 15:12)
(Drilling and boring machinery)

VASIL'YEV, V.G.; YEROFEYEV, N.S.; ANIKEYEVA, I.B.; YELIN, N.D.; YELOVNIKOV, S.I.; KOLOTUSHKINA, A.E.; L'VOV, M.S.; MATVIYEVSKAYA, N.D.; MIRONCHEV, Yu.P.; MODELEVSKIY, M.Sh.; MURATOVA, A.T.; MUSTAFINOV, R.A.; ROZHKOV, E.L.; SNEGIREVA, O.V.; STAROSEL'SKIY, V.I.; SYTNIK, N.A.; NEVEL'SHTEYN, V.I., ved. red.; YASHCHURZHINSKAYA, A.B., tekhn. red.

[Prospecting for gas fields in the U.S.S.R. during four years of the seven-year plant] Poiski i razvedka gazovykh mestorozhdenii v SSSR za chetyre goda semiletki. Leningrad, Gostoptekhizdat, 1963. 171 p. (MIRA 16:8)
(Gas, Natural—Geology)

GORYACHKIN, M.; KOLOTUSHKINA, A.

Seminar on technological and economic principles in designing agricultural machinery. Sel'khozmashina no.10:32-3 of cover 0 '56.
(Agricultural machinery) (MLRA 9:12)

KOLOTUSHKINA, A.P., kandidat ekonomicheskikh nauk.

Work of the All-Union Institute of Agricultural Machinery Research in determining the effectiveness of new designs of machinery. Sel'-khozmashina no.7:22-25 Jl '57. (MLRA 10:8)
(Agricultural machinery--Testing)

KOLOTUSHKINA, A.P., kandidat ekonomicheskikh nauk.

The role of mechanization in agriculture. Sel'khozmashina no.10:9-11 O '57. (MLRA 10:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya.
(Agricultural machinery)

Kolotushkina, A.P.

KOLOTUSHKINA, A.P.; ZHITNEV, N.F.

Conference on economics. Sel'khozmashina no.10:3 of cover 0 '57. (MLRA 10:9)

(Agricultural machinery)

VOLKOV, Yu.I., inzh.; GAFANOVICH, A.A., kand.tekhn.nauk; GLADKOV, N.G., kand.sel'skokhoz.nauk; GORKUSHA, A.Ye., agr.; ZHITNEV, N.F., inzh.; ZANIN, A.V., kand.tekhn.nauk; ZAUSHITSYN, V.Ye., kand.tekhn.nauk; ZVOLINSKIY, N.P.; ZEL'TSERMAN, I.M., kand.tekhn.nauk; KAIPOV, A.N., kand.tekhn.nauk; KASPAROVA, S.A., kand.sel'skokhoz.nauk; KOLOTUSHKINA, A.P., kand.ekon.nauk; KRUGLYAKOV, A.M., inzh.; KURNIKOV, I.I., inzh.; LAVRENT'YEV, L.N., inzh.; LEBEDEV, B.M., kand.tekhn.nauk; LEVITIN, Yu.I., inzh.; MAKHLIN, Ye.A., inzh.; NIKOLAYEV, G.S., inzh.; POLESHCHENKO, P.V., kand.tekhn.nauk; POLUNOCHEV, I.M., agr.; P'YANKOV, I.P., kand.sel'skokhoz.nauk; RABINOVICH, I.P., kand.tekhn.nauk; SOKOLOV, A.F., kand.sel'skokhoz.nauk; STISHKOVSKIY, A.A., inzh.; TURBIN, B.G., kand.tekhn.nauk; CHABAN, I.V., inzh.; CHAPKEVICH, A.A., kand.tekhn.nauk; CHERNOV, G.G., kand.tekhn.nauk; SHMELEV, B.M., kand. tekhn.nauk; KRASNICHENKO, A.V., inzh., red.; KLETSKIN, M.I., inzh., red.; MOLYUKOV, G.A., inzh., red.; BLAGOSKLONOVA, N.Yu., inzh., red.; UVAROVA, A.F., tekhn.red.

[Reference book for the designer of agricultural machinery in two volumes] Spravochnik konstruktora sel'skokhozaistvennykh mashin v dvukh tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.1. 1960. 655 p. (MIRA 13:11)
(Agricultural machinery--Design and construction)

ZHITNEV, N.F., inzh., red.; KOLOTUSHKINA, A.P., kand. ekonom. nauk, red.; GORYACHKIN, M.I., kand. ekon. nauk, retsenzent; FAL'KO, O.S., inzh., red.; TIKHANOV, A.Ya., tekhn. red.

[Economic effectiveness of the agricultural machinery] Ekonomicheskaia effektivnost' novykh sel'skokhoziaistvennykh mashin; metodika i normativno-spravochnye materialy. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-r , 1961. 314 p. (MIRA 15:1)
(Agricultural machinery)

Ye.V. KoloTushKINA

11(4) PHASE I BOOK EXPLOITATION SOV/2075

Akademiya nauk SSSR. Bashkirskiy filial, Ufa

Khimiya seraorganicheskikh soyedineniy, soderzhashchikhsya v neftyakh i nefteproduktakh; [materialy III nauchnoy sessii] (Chemistry of Sulphur Organic Compounds Contained in Petroleum and Petroleum Products; [Papers of the Third Scientific Session]) Moscow, Izd-vo AN SSSR, 1959. 376 p. 2,000 copies printed. Errata slip inserted.

Editorial Board: R.D. Obolentsev (Resp. Ed.) Doctor of Chemical Sciences; G.D. Gal'pern, Doctor of Chemical Sciences; Ya. B. Chertkov, Doctor of Technical Sciences; V.V. Panov, Candidate of Technical Sciences; and V.P. Rozhdestvenskiy, Candidate of Chemical Sciences; Ed. of Publishing House: I.I. Bruayv; Tech. Ed.: T.P. Polenova.

PURPOSE: This book is intended for chemists, chemical engineers, and technicians specializing in the chemistry of petroleum.

COVERAGE: The book is a collection of papers presented at the Third Scientific Session on the Chemistry of Organic Sulfur- and Nitrogen Compounds Contained in Petroleum and Petroleum Products. The scientific session was held in Ufa, June 3-8, 1957. The book consists of six sections: 1) Synthesis, characterization, and analysis of organic sulfur compounds; 2) Separation and composition of organic sulfur compounds contained in petroleum and petroleum products; 3) Transformation of organic sulfur compounds by thermal catalysis; 4) Corrosive properties of and tar formation in sulfur-containing petroleum and petroleum products; 5) Uses of organic sulfur compounds and hydrogen sulfide; 6) Physiological properties of organic sulfur compounds. No personalities are mentioned. There are 315 references, of which 179 are Soviet, 118 English, 5 French, 12 German, and 1 Czech.

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Chemistry of Sulphur Organic Compounds (Cont.) SOV/2075

PART IV. CORROSIVE ACTIVITY AND TAR FORMATION OF SULFUR-CONTAINING PETROLEUM AND PETROLEUM PRODUCTS

Card 8/10

NIKOLAYEVA, V.G.; DUKHNINA, A.Ya.; KOMAROV, B.I.; LEVINSON, G.I.; Prinimali uchastiye: KOLOTUSHKINA, Ye.V., inzh.; BORISKINA, N.A.

Investigation of the anticorrosive additives to residual fuels containing vanadium and sulfur. Khim. i tekh. topl. i masel. 6 no.10:17-22 O '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.
(Fuel--Additives) (Corrosion and anticorrosives)

L 22481-66 EWT(m)/EWA(d)/T/EWP(t) IJP(c) JD/WB/WE

ACC NR: AP6007933 SOURCE CODE: UR/0065/66/000/003/0054/0057

AUTHOR: Nikolayeva, V. G.; Komarov, B. I.; Kolotushkina, Ye. V.; Medvedev, S. P.; Ostroushchenko, M. S.

67
63
13

ORG: none

TITLE: High temperature corrosion of metals during combustion of distilled gas-turbine fuels

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 3, 1966, 54-57

TOPIC TAGS: corrosion, solid mechanical property, gas turbine fuel, turbine engine

ABSTRACT: The effect of sulfur content (0.3-2.4%) in vacuum distillation residue and diesel oil fuels on corrosion of gas-turbine metal blades was investigated in the 650--850°C range using a laboratory scale combustion unit. The test duration was 100 hrs. The corrosion of steel and alloy blades in a gas stream during combustion of the thermal catalytic cracking distillates is shown in figure 1. It was found in the cases of EI-598 nickel-based and EI-607 alloy steels and high-chromium EI-417 steel that the blade corrosion remains in 0.026-0.066 g/m^2·hour limits for a wide range of sulfur content in vacuum residue fuels. For diesel oils the material loss remained within 0.038-0.073 g/m^2·hour limits. For fuels containing 2.4% S and 0.007% ash, the in-

UDC: 665.521.3:620.193.5

Card 1/2

Card

KOLOTUSHKINA, A.P., kandidat ekonomicheskikh nauk.

Determining a standard cost for agricultural machinery during the design stage. Sel'khozmashina no.3:21-25 Mr '57.
(MLRA 10 5)

(Agricultural machinery industry--Costs)

29042
S/081/61/000/018/022/027
B101/B147

11.0132

AUTHORS: Bespolov, I. Ye., Pletneva, O. V., Kolotushkina, Ye. V., Belyayeva, G. P., Malysheva, M. S.

TITLE: Corrosiveness of fuels produced from sulfurous petroleums

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1961, 439, abstract 18M187 (Sb. "Khimiya seraorgan. soyedineniy, soderzhashchikhsya v neftyakh i nefteproduktakh", M., AN SSSR, 1959, 276 - 283)

TEXT: The corrosiveness of the fuels TC-1 (TS-1) and T-2 (T-2) was examined. They contained 0.002 - 0.05% of mercaptan sulfur. It was found that the corrosion of copper and bronze BB-24 (VB-24) in fuels obtained from sulfurous petroleums is chiefly due to the presence of mercaptans. Fuels containing no mercaptans hardly corrode these metals. The presence of elementary sulfur of up to 0.002% in mercaptan-containing TS-1 fuel, while not increasing the corrosiveness of the latter toward VB-24 bronze, increases it markedly toward copper. T-2 fuel, which has a wide fractional composition, corrodes copper more strongly than does TS-1 fuel.

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Corrosiveness of fuels...

This is explained by the considerably higher corrosiveness of low-molecular mercaptans contained in the 60 - 130°C fraction of T-2 fuel. The principal cause of the formation of gelatinous deposits on cadmium-plated parts in the fuels concerned is the moistening of the latter in the presence of mercaptan sulfur. On an increase of the content of the latter to $>0.01\%$ in the fuel, the amount of deposits increases significantly. Chromate passivation of cadmium-plated parts raises their resistance to the corrosive action of mercaptans, and altogether prevents deposits from forming in TS-1 and T-2 fuels containing $\leqslant 0.01\%$ of mercaptan sulfur. As cadmium-plated parts of fuel pumps are most responsive to the action of mercaptans, the content of mercaptan sulfur in TS-1 and T-2 fuels should be $\leqslant 0.01\%$. [Abstracter's note: Complete translation.]

Card 2/2

BESPOLOV, I.Ye.; KOLOTUSHKINA, Ye.V.

Deposit formation on the cadmium-plated parts of fuel pumps under the action of mercaptans contained in jet fuels. Khim.sera-i azotorg. soed.sod.v neft.i nefteprod. 3:475-481 '60. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.
(Jet planes—Fuel) (Corrosion and anticorrosives) (Thiols)

KOLOTUSHKINOVA, A.

"Task of mechanization in socialist agriculture. Tr. from the Russian."

p. 9 (Zemelske Stroje, Vol. 3, no. 1, Jan. 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9, September 1958

MROCHKOV, K.A., kand.tekhn.nauk; GUSEV, A.I., inzh.; KOLOTVIN, B.F., inzh.

Research on establishing optimum conditions for the processing of whale blubber in the vacuum apparatus line of the "Slava" whaling base. Trudy VNIRO 35:231-246 '58. (MIRA 11:11)
(Rendering apparatus) (Whale oil)

6(4) PHASE I BOOK EXPLOITATION SOV/3146

Kolotygin, Igor' Nikolayevich

Perenosnyy magnitofon (Portable Tape Recorder) Moscow, Gosenergoizdat, 1958. 23 p. (Series: Massovaya radiobiblioteka, vyp. 314)
50,000 copies printed.

Ed.: F. I. Tarasov; Tech. Ed.: G. Ye. Larionov; Editorial Commission: A. I. Berg, F. I. Burdeynyy, V. A. Burlyand, V. I. Vaneyev, Ye. N. Genishta, I. S. Dzhigit, A. M. Kanayeva, E. T. Krenkel', A. A. Kulikovskiy, A. D. Smirnov, F. I. Tarasov, and V. I. Shamshur.

PURPOSE: The booklet is intended for radio amateurs interested in constructing a tape recorder.

COVERAGE: The booklet describes a home-built portable tape recorder weighing about 6 kilograms. The recorder is designed for double sound-track recording at a speed of 9.6 per sec. No personalities are mentioned. There are no references.

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L 16793-63 EPR/EPF(c)/EWP(q)/EWT(m)/BDS AFFTC/ASD Ps-4/Pr-4 JD/WB/K

ACCESSION NR: AP3007234 S/0020/63/152/001/0088/0091

AUTHOR: Fateyeva, N. S.; Vereshchagin, L. F., Corresponding member, AN SSSR; Koloty*gin, V. S.

TITLE: Optical method of determining the melting point of graphite as a function of pressure up to 3000 atm

SOURCE: AN SSSR. Doklady*, v. 152, no. 1, 1963, 88-91

TOPIC TAGS: graphite melting point, graphite melting pressure dependence, graphite melting pressure, graphite

ABSTRACT: Pressure dependence of the melting point of graphite was determined at pressures up to 3000 atm. The experiment was carried out to obtain quantitative data by an exact method of automatic photoelectric recording. A graphite specimen in the form of a 10-mm rod, 1.5 mm in diameter, with a 0.8-mm neck in the middle, was heated up to melting point by increasing electric current to over 40 amp within a couple of seconds. The specimen was fixed across the longitudinal axis of a cylindrical pressure

Card 1/3

chamber. One end of the chamber was arranged for visual observation; the other end contained an optical focussing system. After emerging from the focussing system of the chamber, the light beam from the heated specimen was made to pass alternately through two interference filters which separated bands of the order of 2 mμ from the continuous emission spectrum to be projected upon the slit of the FEU-22 photomultiplier. Gray filters in the same path were required to compensate for increased luminosity of the specimen when heated at rising pressures. A 29-mm cylindrical quartz rod, 7 mm in diameter, was inserted between the specimen and the focussing lens to eliminate the effects of dispersion and the fluctuations due to convection flows. The distance between the specimen and the face of the quartz rod was 2 mm and the focal length of the lens was 33 mm. The image at the slit of the photomultiplier was enlarged 20 times. The output of the multiplier after amplification was recorded on a MPO-2 tape oscillograph. Measurements showed that the melting temperature of graphite increases slowly with increasing pressure from 4650K at atmospheric pressure to 4750K at 3000 atm. "The authors express their deep appreciation to Academician I. V. Obreimov and Professor D. Ya.

L 16793-63

ACCESSION NR: AP3007234

Svet for their valuable assistance in the investigations. G. V. Shcheglakov took part in the work." Orig. art. has: 3 figures.

ASSOCIATION: Institut fiziki vy*sokikh davleniy, Akademii nauk SSSR (Institute of Physics of High Pressures, Academy of Sciences SSSR); Moskovskiy gosudarstvenny*y universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 09Apr63 DATE ACQ: 30Sep63 ENCL: 00

SUB CODE: PH NO REF SOV: 003 OTHER: 002

Card 3/3

FATEYEVA, N.S.; VERESHCHAGIN, L.F.; KOLOTYGIN, V.S.

Optical method for determining the melting point of graphite as dependent on pressure up to 40,000 atm. Dokl. AN SSSR 152 no.2:317-319 S '63. (MIRA 16:11)

1. Institut fiziki vysokikh davleniy AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. 2. Chlen-korrespondent AN SSSR (for Vereshchagin).

KOLOTYGIN, Ye.

YEGOROV, Ya., (Rostov-na-Donu); KOLOTYGIN, Ye., (Rostov-na-Donu).

Miniature tube low frequency amplifier. Radio no.10:46 '56.

(Amplifiers, Electron-tube)

KOLOTYGIN, Yevgeniy Sergeyevich, inzh.; MAMONTOV, Vyacheslav Ivanovich

Transistorized three-phase RC generator. Izv. vys. ucheb. zav.; elektromekh. 6 no.9:1118-1122 '63. (MIRA 16:12)

1. Nachal'nik laboratorii Upravleniya promyshlennosti priborostroyeniya (for Kolotygin). 2. Vedushchiy inzhener Upravleniya promyshlennosti priborostroyeniya (for Mamontov).

KOROLEV, P.A.; KOLOTYGINA, A.P.

Clinical and epidemiological data on Q fever in Crimea. Zhur.mikrobiol.epid. i immun. 27 no.7:10-15 Jy '56. (MLRA 9:9)

1. Iz kliniki infektsionnykh bolezney Krymskogo meditsinskogo instituta imeni Stalina i Oblastnoy sanitarno-epidemiologicheskoy stantsii.

(Q FEVER, epidemiol.
in Russia, Crimea)

KOLOTYGINA, A.P.

Serodiagnosis of typhus [with summary in English]. Vop. virus 3 no.2:90-92 Mr-Ap '58 (MIRA 11:5)

1. Virusno-rikketsioznaya laboratoriya Krymskoy oblastnoy sanitarno-epidemiologicheskoy stantsii, Simferopol'.
(TYPHUS, diagnosis
serodiag., technic & results (Rus))

KOLOTYRKIN, I.M.

Problems for the further improvement in utilizing Moscow's gas industry. Gor. khoz. Mosk. 30 no.7:5-9 Jl '56. (MLRA 9:10)

1. Nachal'nik Upravleniya gazovogo khozyaystva Mosgorispolkoma. (Moscow--Gas manufacture and works) (Moscow--Gas, Natural)

KOLOTYRKIN, I.M.

Gas services of Moscow. Gor.khoz.Mosk. 31 no.10:22-25 O '57.
(MIRA 10:10)

1. Nachal'nik Upravleniya gazovogo khozyaystva Mosgorispolkoma.
(Moscow--Gas distribution)

KOLOTYRKIN, I.M.

On the road toward the complete gasification of the capital. Gor. khoz. Mosk. 32 no.10:5-6 O '58. (MIRA 11:11)

1. Nachal'nik Toplivno-energeticheskogo upravleniya Mosgorispolkoma. (Moscow--Gas distribution)

11(3) Kolotyrkin, I.M. PHASE I BOOK EXPLOITATION SOV/2254

Nauchno-teknicheskoye obshchestvo energeticheskoy promyshlennosti Moskovskoye pravleniye

Ispol'zovaniye gaza v promyshlennykh pechakh i kotel'nykh ustanovkakh g. Moskvy i Moskovskoy oblasti; materialy Moskovskogo nauchno-tekhnicheskogo soveshchaniya (Utilization of Gas in Industrial Furnaces and Boiler Units in Moscow and Moscow Oblast'; Materials of the Moscow Scientific and Technical Conference) Moscow, Gostoptekhizdat, 1959. 227 p. Errata slip inserted. 5,000 copies printed.

Ed.: D. B. Ginzburg, Doctor of Technical Sciences; Exec. Ed.: N. I. Stepanchenko; Tech. Ed.: A. S. Polosina.

PURPOSE: This collection of articles is intended for specialists engaged in designing and operating gas units of industrial enterprises and electric power plants.

COVERAGE: The change-over in some industrial enterprises from solid and liquid fuel to natural gas is discussed and further possibilities existing along this line are examined. Advantages of using natural gas as a source of energy are outlined. Different gas burner systems, devices for automatic control of the combustion process, structural features of furnaces operating on natural

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Utilization of Gas in Industrial Furnaces (Cont.) SOV/2254

gas, gas-supply systems and the introduction of safety measures in the construction and operation of gas units are described. The book contains many diagrams of gas-supply systems and equipment. No personalities are mentioned. One article is followed by references.

TABLE OF CONTENTS:

Card 2/4

KOLOTYRKIN, V.M.; TIKHOMIROV, M.V.; TUNITSKIY, N.N.; SEMENOV, N.N., akademik.

Mass spectrum of methane at increased pressure. Dokl.AN SSSR 92 no.6:1193-1195 O '53. (MLRA 6:10)

1. Akademiya nauk SSSR (for Semenov). 2. Fiziko-khimicheskiy institut im. L.Ya.Karpova (for Kolotyrkin, Tikhomirov and Tunitskiy).
(Methane) (Spectrum analysis)

KOLOTYRKIN, V. M.

"Dissociation of Hydrocarbon Ions in the Mass Spectrometer." Cand Chem Sci, [No inst given] Moscow, 1954. (RZhKhim, No 8, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

KOLOTYRKIN, V. M.

USSR

7520. [illegible] spectrum [illegible] sure. V. M. K[illegible] N. N. T[illegible] Vol. 6, 1151-[illegible]

Presents the results of studies [illegible] dependence of the "fractional" peaks [illegible] and [illegible] occurring in CH_4 as a result of processes $CH^+ \rightarrow C^+ + H$ and $CH_2^+ \rightarrow C^+ + 2H$. The dependence of the intensity (I) of the primary peaks on pressure (p) can be represented by the formula $I = (Ap$ [illegible] $)\exp(-\kappa p)$, where A is the probability of the primary peak being formed by a collision with an electron, Bp^2 is the term allowing for the possibility of a change in the number of resultant ions, due to collisions in the ionic source, and κ is the coefficient of scattering. If the coefficients of scattering are equal for the primary and secondary ions, then the intensity of the secondary peak $I^* = Kp$ [illegible] for $B = 0$ and [illegible] values of κp, the I^*/I ratio [illegible] experiments [illegible] show that [illegible] proportional [illegible] and [illegible] values, proportional to pressure. The cross-section of the reaction $CH^+ \rightarrow C^+ + H$ is of the order of $1 \cdot 10^{-18}$ cm^2. [illegible]

BB

KOLOTYRKIN, V. M.

USSR/Physics - Physical chemistry

Card 1/2 Pub. 22 - 32/51

Authors : Tikhomirov, M. V.; Kolotyrkin, V. M.; and Tunitskiy, N. N.

Title : About the dissociation of primary ions in a mass-spectrometer

Periodical : Dok. AN SSSR 101/5, 903-905, Apr 11, 1955

Abstract : The relation between the intensity of "fractional" n-butane peaks and pressure was investigated to explain the mechanism of primary ion dissociation at greater pressures. It is pointed out that the dissociation at greater pressures. It is pointed out that the dissociation during collision, as in the case of spontaneous decomposition, may depend upon the ion excitation and that the excitation varies depending upon the energy of the ionizing electrons. It was found that the relative intensity of the "fractional" peaks increases with the electron

Institution : The A. A. Zhdanov State University, Leningrad

Presented by: Academician A. N. Terenin, November 14, 1954

Card 2/2 Pub. 22 - 32/51

Periodical : Dok. AN SSSR 101/5, 903-905, Apr 11, 1955

Abstract : energy, this is due to the fact that the spontaneous decomposition of the ions and their decomposition during collisions depend in various degrees upon the electron energy. Eight references: 3 German, 2 USSR, 2 USA and 1 English (1939-1953). Graphs.

36775
S/089/62/012/005/006/014
B101/B108

21.4200

AUTHORS: Nikolayev, N. I., Kolotyrkin, V. M., Tunitskiy, N. N.

TITLE: Separation of lithium isotopes on cationites by means of sharp-edged moving bands

PERIODICAL: Atomnaya energiya, v. 12, no. 5, 1962, 404 - 407

TEXT: The application of the method of F. Spedding, I. Powel, H. Swec (J. Amer. Chem. Soc., 77, 6125 (1955)) to separating the lithium isotopes on a KU-2 (KU-2) cationite is described. Since neutralization of the H^+ form of the resin led to a temperature increase and to irreversible adsorption of lithium an NH_4^+ buffer band was used. First, 0.2 N NH_4OH was passed through a column with KU-2 in H^+ form. A 23-cm long NH_4^+ band was observed owing to the change in color of the resin. 0.2 N LiOH formed a 33-cm long visible Li^+ band. The bands were eluated by means of 0.25 N NaOH. The transition of the cationite from the Li^+ to the Na^+ form is not visible (no change in color). For calculating the separation factor α the authors

Card 1/2

42187
S/076/62/036/011/017/021
B101/B180

5.4110

AUTHORS: Kolotyrkin, V. M., and Nikolayev, N. I.

TITLE: Distribution of lithium isotopes in immiscible solvents

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 11, 1962, 2540-2541

TEXT: Lithium chloride was dissolved in mixtures of water and organic solvents. After demixing, the isotope composition was examined by mass spectrometry in both phases, and the α separation coefficient was determined. Results: (1) In acetone-water mixtures, $\alpha = 1.027 \pm 0.008$ was found for the water-saturated LiCl solution. In more dilute solutions (about 1 N LiCl in the aqueous phase), the isotope composition remained unchanged. (2) In the system water-isoamyl alcohol, α was 1.02 for saturated LiCl solution, and 1.032 for 2 N LiCl solution. Li^6 concentrated in the aqueous phase. (3) In mixtures of diethyl ether and $LiNO_3$ dissolved in concentrated nitric acid, and in mixtures of amyl acetate and LiCl dissolved in hydrochloric acid, there was no change in the isotope composition. (4) In a mixture of 30% aqueous solution of methyl amine and

Card 1/2

isoamyl alcohol (ratio 1:1), Li^6 concentrated owing to complex formation with the methyl amine in the organic phase, and $\alpha - 1$ was 0.017 ± 0.007. When saturated hydrocarbons (petroleum fraction, b.p. 60-90°C) were added to this mixture $\alpha - 1$ became -0.047 ± 0.07, and Li^6 was mainly converted to the aqueous phase. There is 1 table.

SUBMITTED: April 5, 1962

Card 2/2

TUNITSKIY, N.N.; TIKHOMIROV, M.V.; KUPRIYANOV, S.Ye.; KOLOTYRKIN, V.M.; GUR'YEV, M.V.; POTAPOV, V.K.

Studies in the field of mass spectrometry. Probl.fiz.khim. no.1:122-128 '58. (MIRA 15:11)

1. Laboratoriya adsorbtsionnykh protsessov Nauchno-issledovatel'skogo fiziko-khimicheskogo instituta im. Karpova.

(Mass spectrometry)

KOLOTYRKIN, V.M.; KUPRIYANOV, S.Ye.

Dissociation of CH^+ and CH_2^+ ions. Zhur. fiz. khim. 37 no.12:2769-2771 D '63. (MIRA 17:1)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

KOLOTYRKIN, V.M.; NIKOLAYEV, N.I.

Distribution of lithium isotopes in immiscible solvents.
Zhur. fiz. khim. 36 no.11:2540-2541 N'62. (MIRA 17:5)

L 8861-66 EWT(l)/EWT(m)/EPF(n)-2/EWP(j)/T/EWA(h)/ETC(m)/EWA(l) IJP(c) WW/GG/RM

ACC NR: AP5025967 SOURCE CODE: UR/0190/65/007/010/1802/1806

AUTHOR: Tsapuk, A. K.; Kolotyrkin, V. M.

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TITLE: Polymerization of silicone oil on an electron irradiated solid surface

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965, 1802-1806

TOPIC TAGS: silicone, plastic coating, polymerization, polymerization kinetics, radiation polymerization, polymer structure, dielectric property, dielectric strength, dielectric permeability

ABSTRACT: The formation of polymeric films on electron irradiated stainless steel and sodium chloride surfaces in an atmosphere of silicone oil was investigated. The following kinetic relationships were determined in polymerizing films from VKZh-94B silicone oil onto stainless steel: film deposition increased linearly at about 0.3 angstroms/sec with irradiation time; varying electron energies from 200-600 ev had no effect on film deposition; initial increase in vapor pressure

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to about 7×10^{-5} mm increased amount of deposit but higher pressures had no effect. The differences in films formed on steel and on salt crystal substrates are discussed, especially in view of their IR spectra. The dielectric properties of the films--resistivity, dielectric strength, dielectric constant and dielectric loss tangent were evaluated. "The authors thank V. P. Bazov for obtaining IR spectra and assisting in their interpretation. In conclusion we thank N. N. Tunitsko for discussion of the work." Orig. Art. has: 4 figures.

SUB CODE: OC, GC, MT/ SUBM DATE: 25Nov64/ ORIG REF: 002/ OTH REF: 021

BVK

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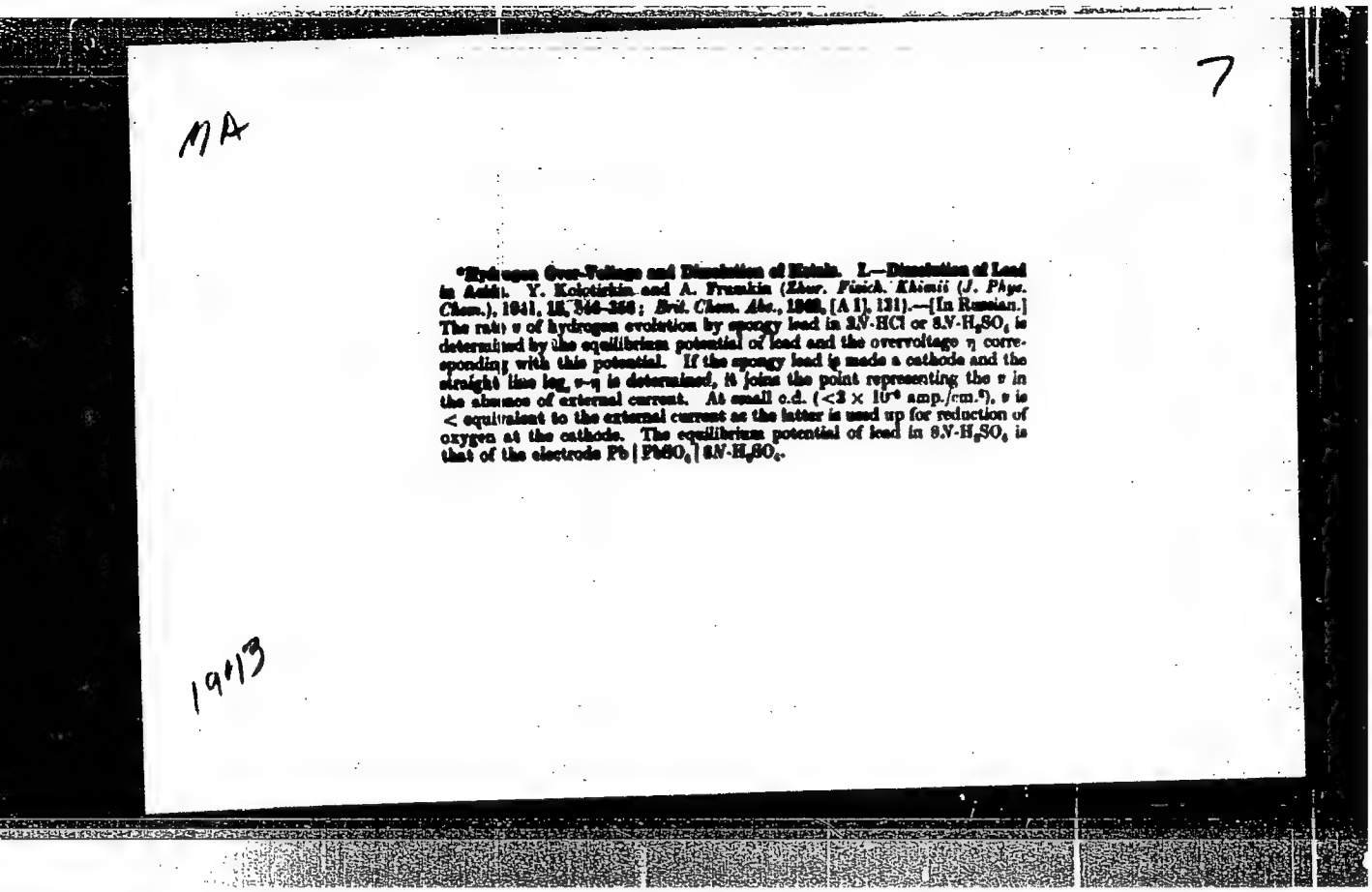

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"Hydrogen Over-Voltage and Dissolution of Metals. I.—Dissolution of Lead in Acids. Y. Kolotyrkin and A. Frumkin (*Zhur. Fizich. Khimii* (*J. Phys. Chem.*), 1941, **15**, 346–356; *Brit. Chem. Abs.*, 1942, [A I], 121).—[In Russian.] The rate v of hydrogen evolution by spongy lead in 2*N*-HCl or 8*N*-H_2SO_4 is determined by the equilibrium potential of lead and the overvoltage η corresponding with this potential. If the spongy lead is made a cathode and the straight line log v–η is determined, it joins the point representing the v in the absence of external current. At small c.d. ($< 3 \times 10^{-6}$ amp./cm.^{2}), v is < equivalent to the external current as the latter is used up for reduction of oxygen at the cathode. The equilibrium potential of lead in 8*N*-H_2SO_4 is that of the electrode Pb | $PbSO_4$ | 8*N*-H_2SO_4.

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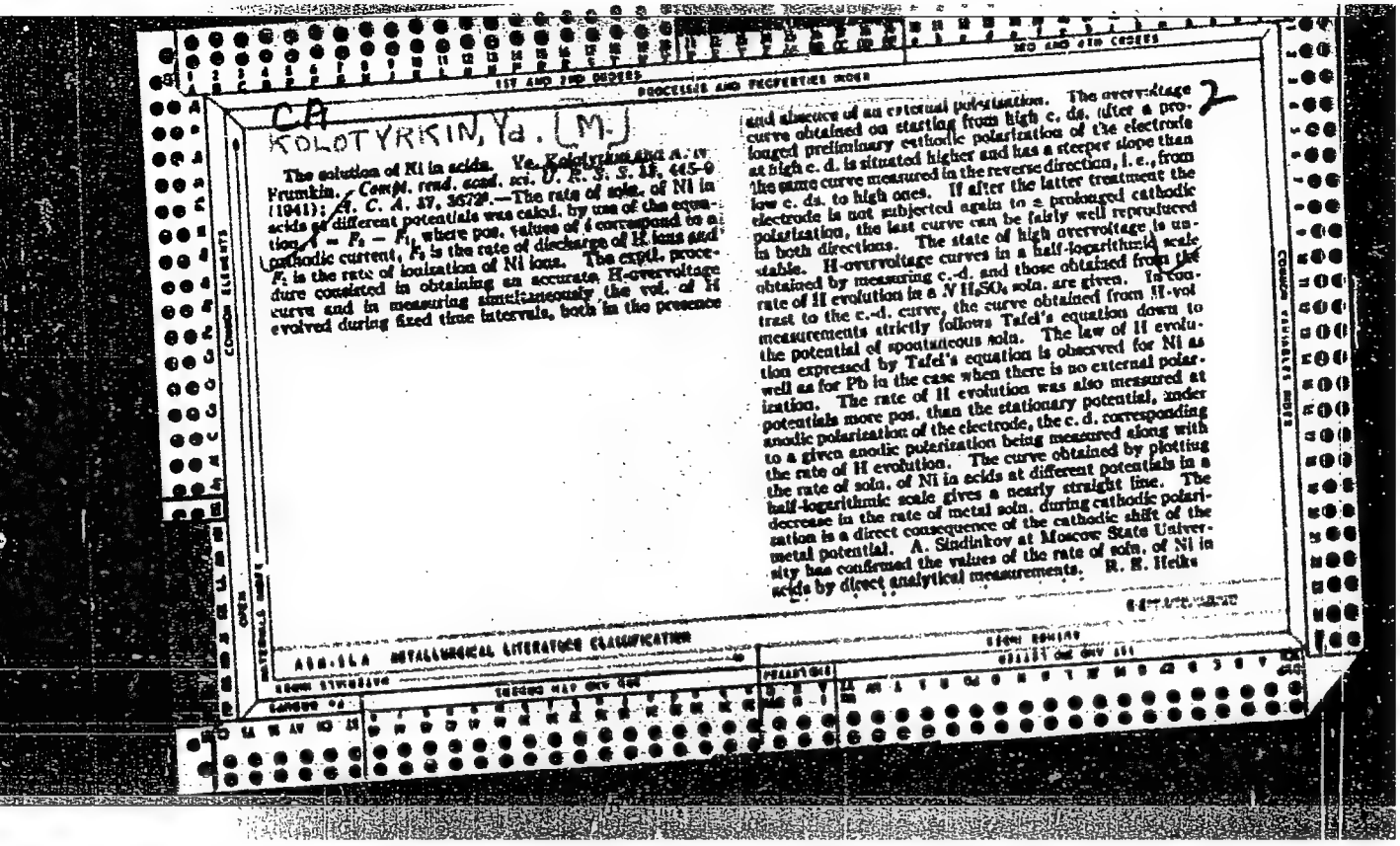

CA

KOLOTYRKIN, Ya. M.

The solution of Ni in acids. Ya. Kolotyrkin and A. N. Frumkin. *Compt. rend. acad. sci. U. R. S. S.* 33, 445-9 (1941); *A. C. A.* 37, 3672f.—The rate of soln. of Ni in acids at different potentials was calcd. by use of the equation $i = F_0 - F_1$, where pos. values of i correspond to a cathodic current, F_0 is the rate of discharge of H ions and F_1 is the rate of ionization of Ni ions. The expt. procedure consisted in obtaining an accurate H-overvoltage curve and in measuring simultaneously the vol. of H evolved during fixed time intervals, both in the presence and absence of an external polarization. The overvoltage curve obtained on starting from high c. ds. after a prolonged preliminary cathodic polarization of the electrode at high c. d. is situated higher and has a steeper slope than the same curve measured in the reverse direction, i. e., from low c. ds. to high ones. If after the latter treatment the electrode is not subjected again to a prolonged cathodic polarization, the last curve can be fairly well reproduced in both directions. The state of high overvoltage is unstable. H-overvoltage curves in a half-logarithmic scale obtained by measuring c.-d. and those obtained from the rate of H evolution in a N H_2SO_4 soln. are given. In contrast to the c.-d. curve, the curve obtained from H-vol measurements strictly follows Tafel's equation down to the potential of spontaneous soln. The law of H evolution expressed by Tafel's equation is observed for Ni as well as for Pb in the case when there is no external polarization. The rate of H evolution was also measured at potentials more pos. than the stationary potential, under anodic polarization of the electrode, the c. d. corresponding to a given anodic polarization being measured along with the rate of H evolution. The curve obtained by plotting the rate of soln. of Ni in acids at different potentials in a half-logarithmic scale gives a nearly straight line. The decrease in the rate of metal soln. during cathodic polarization is a direct consequence of the cathodic shift of the metal potential. A. Studinkov at Moscow State University has confirmed the values of the rate of soln. of Ni in acids by direct analytical measurements. R. E. Heiks

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CB

KOLOTYRKIN, Ya. M.

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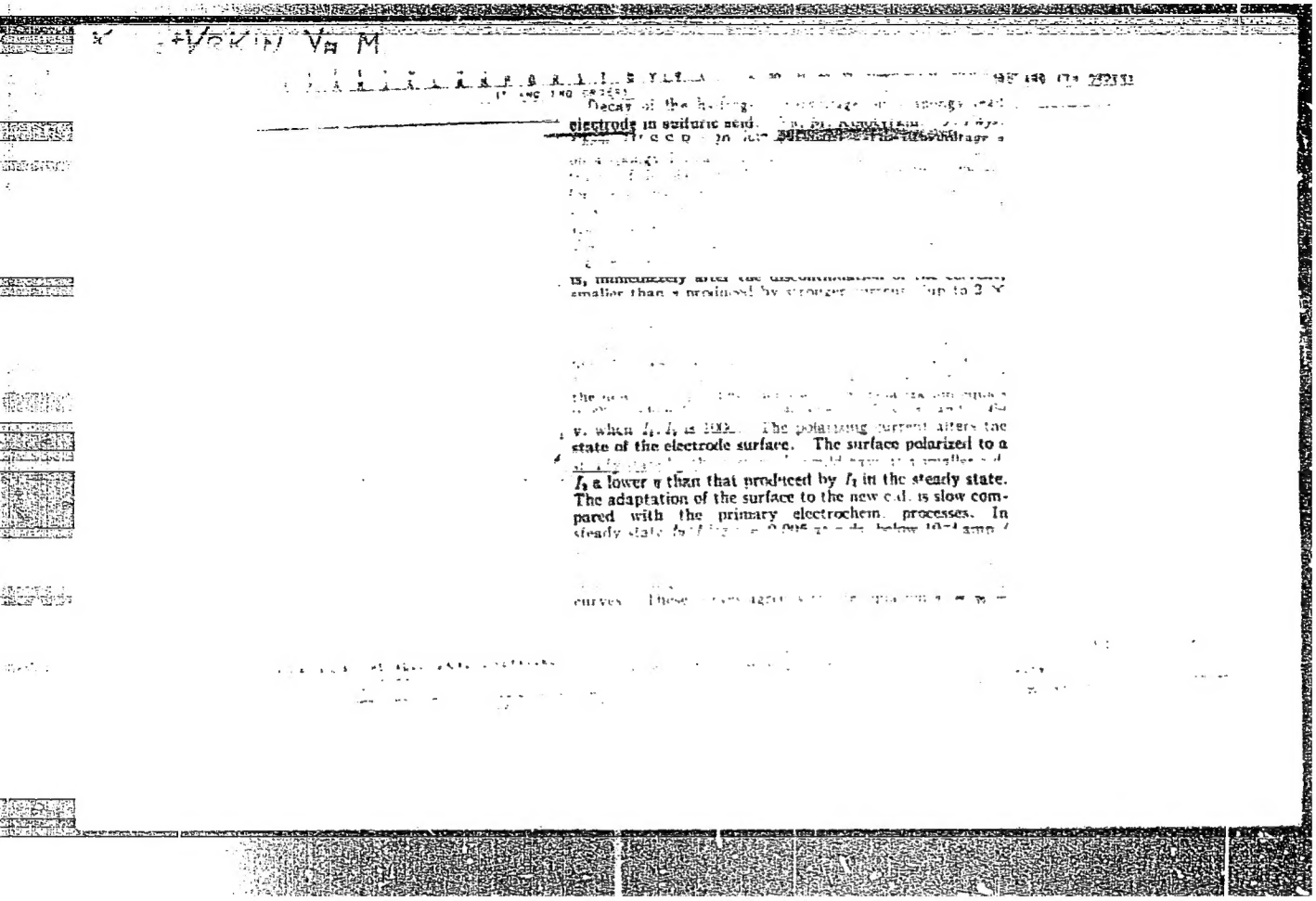
Effect of acid concentration and of the addition of Pt on the solution of Ni. Ya. Kolotyrkin and A. N. Frumkin. *Compt. rend. acad. sci. U. R. S. S.* 33, 450-3(1941); cf. preceding abstr.—The overvoltage of H on Ni and the rate of soln. of the latter were measured in 0.01, 0.1 and 1.0 *N* HCl and in 0.01, 0.1, 1.0 and 10 *N* H_2SO_4. The data indicate that the velocity of anodic soln. of Ni at a given potential does not depend on the concn. of acid. The relation between the rate of spontaneous soln. of Ni and the concn. is detd. by the H overvoltage and the slope of the soln. curve. The rate of spontaneous soln. increases owing to the fact that the new overvoltage curve intersects the soln. curve at a more pos. potential. The spontaneous rate of soln. of Ni is related to the concn. of the acid by the following equation, $v = Const'.[H^+]^{0.8}$ where v is the rate of soln. and $[H^+]$ is the H-ion concn. Covering a small part of the electrode surface with Pt does not affect the rate of soln. at a given potential, but strongly increases its rate of spontaneous soln., possibly because traces of Pt deposited on the surface of the electrode act as centers of lowered H overvoltage. R. R. Heiks

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Decay of the ... electrode in sulfuric acid. ...

is, immediately after the discontinuation of the current, ... smaller than ... produced by stronger ... up to 2 V.

... when $I_2 : I_1$ is 100. The polarizing current alters the state of the electrode surface. The surface polarized to a ... I_2 a lower η than that produced by I_1 in the steady state. The adaptation of the surface to the new c.d. is slow compared with the primary electrochem. processes. In steady state I_2 / I_1 = 0.005 ... below 10^{-4} amp. /

curves. These ...

KOLOTYRKIN, Ya. M.

PA 18T96

USSR/Chemistry - Electrochemistry May 1947
Chemistry - Electrodes

"The Hydrogen Overvoltage on the Lead Electrode and the Stationary Solution Potential of Lead in Sulphuric Acid," Ya. Kolotyrkin, N. Bune, Physical-Chemical Institute, imeni L. Ya. Karpov, Moscow, 7 pp

"Zhur Fiz Khim" Vol XXI, No 5, pp 581-7

Discusses results and states as one of its conclusions the fact that over a long period of time two separate areas of polarization occur on the lead electrode, one of excess voltage and one of heavy current. Tabulated values for each. Published 23 May 1946.

18T96

USSR/Chemistry - Solution of Metals Oct 51
Storage Batteries

"Stationary Potentials of Spontaneously Dissolving Metals in Acid Solutions," Ya. M. Kolotyrkin

"Zhur Fiz Khim" Vol XXV, No 10, pp 1248-1257

Investigated dependence of values of stationary potentials of spontaneously dissolving metals Ni and Fe (strongly polarized, with low H ov voltage) and Pb and Zn (weakly polarized, with high H overvoltage) in acid solns. Derived and verified by expt dependence of stationary potentials for metals of type of Ni and Fe on concn of

USSR/Chemistry - Solution of Metals (Contd) Oct 51

overvoltage of processes of ionization of metal atoms and of discharge of H ions under const and varied acid concns, for metals of type of Pb and Zn on conditions of agitation of soln. Discusses case where stationary potentials of metals of type of Pb and Zn in acid solns are established when acid anions and metal ions form difficultly sol salt.